

ABSTRACT OF THE DISCLOSURE

COMPOSITION BASED ON CERIUM OXIDE AND ON ZIRCONIUM
OXIDE HAVING A HIGH REDUCIBILITY AND HIGH SPECIFIC
5 SURFACE, METHODS FOR THE PREPARATION
THEREOF AND USE AS A CATALYST

The inventive composition is based on cerium oxide and
on zirconium oxide in an atomic proportion Ce/Zr of at
10 least 1, and has a reducibility rate of at least 70 %
and a surface area of at least 15 m²/g. This
composition is obtained by a method in which: a mixture
is made containing cerium and zirconium compounds; this
mixture is provided with a basic compound whereby
15 obtaining a precipitate that is heated in an aqueous
medium; a surfactant-type additive or a polyethylene
glycol or a carboxylic acid is added to this medium or
to the separated precipitate; the mixture is ground;
the precipitate obtained thereof is calcined under
20 inert gas or vacuum, in a first period of time, at a
temperature of at least 850 °C and then under an
oxidizing atmosphere, in a second period of time, at a
temperature of at least 400 °C.